

Notice of Allowability

Application No.	Applicant(s)
10/652,804	MATSUMOTO, SHOICHIRO
Examiner	Art Unit
Tammy Pham	2675

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. This communication is responsive to 4/27/2006.
2. The allowed claim(s) is/are 1-12.
3. Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 - a) All
 - b) Some*
 - c) None of the:
 1. Certified copies of the priority documents have been received.
 2. Certified copies of the priority documents have been received in Application No. _____.
 3. Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

* Certified copies not received: _____.

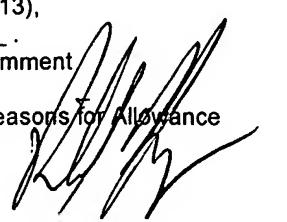
Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.
THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

4. A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
5. CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
 - (a) including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
 - 1) hereto or 2) to Paper No./Mail Date _____.
 - (b) including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

1. Notice of References Cited (PTO-892)
2. Notice of Draftsperson's Patent Drawing Review (PTO-948)
3. Information Disclosure Statements (PTO-1449 or PTO/SB/08),
Paper No./Mail Date 4-27/06
4. Examiner's Comment Regarding Requirement for Deposit
of Biological Material

5. Notice of Informal Patent Application (PTO-152)
6. Interview Summary (PTO-413),
Paper No./Mail Date _____.
7. Examiner's Amendment/Comment
8. Examiner's Statement of Reasons for Allowance
9. Other _____.



RICHARD HJERPE
SUPERVISORY PATENT EXAMINER
TECHNOLOGY CENTER 2600

DETAILED ACTION

Allowable Subject Matter

Claims 1-12 are allowed.

The following is a statement of reasons for the indication of allowable subject matter:

Claims 1-5 are allowable because prior art fails to teach or suggest, either alone or in combination, a system and method for driving a display comprising:

- A voltage converter transistor having one terminal connected to the other terminal of the selection transistor, the other terminal connected to a power supply, and a gate connected to the gate of the driver transistor.
- A data line driven with a current corresponding to data and the gate line is driven so that the selection transistor and the short-circuiting transistor are switched on and the current corresponding to the data flows through the voltage converter transistor to charge the capacitor to a voltage correspond to the data.

Claims 6-12 are allowable because prior art fails to teach or suggest, either alone or in combination, a system and method for driving a display comprising:

- A voltage converter transistor having one terminal connected to the other terminal of the selection transistor, the other terminal connected to a power supply, and a gate connected to the gate of the driver transistor.
- A data line driven with a current corresponding to data and the gate line is driven so that the selection transistor and the short-circuiting transistor are switched on by a write timing signal.

Machio et al. (Japanese Publication No. 2001-147659) discloses a circuit in which two p-channel TFTs are added in each pixel as controller transistors and a signal current is applied to a data line. However, Machio is lacking a voltage converter transistor where one terminal is connected to the other terminal of the selection transistor, the other terminal connected to a power supply, and a gate connected to the gate of the driver transistor.

Shimizu et al. (Japanese Patent No : 59178961 A) discloses a voltage converter. However, Shimizu does not disclose this component as specified in claim 1.

Matsumoto et al. (US Patent No : 6,954,194) discloses of a semiconductor device for controlling an element to be driven which includes a switching TFT and various similar components to the application. However, Matsumoto still lacks the exact make up for the circuit as describe in claim 1.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled “Comments on Statement of Reasons for Allowance.”

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Tammy Pham whose telephone number is (571) 272-7773. The examiner can normally be reached on 8:00-5:30 (Mon-Fri).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Sumati Lefkowitz can be reached on (571) 272-3638. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).


Tammy Pham
August 15, 2006



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